



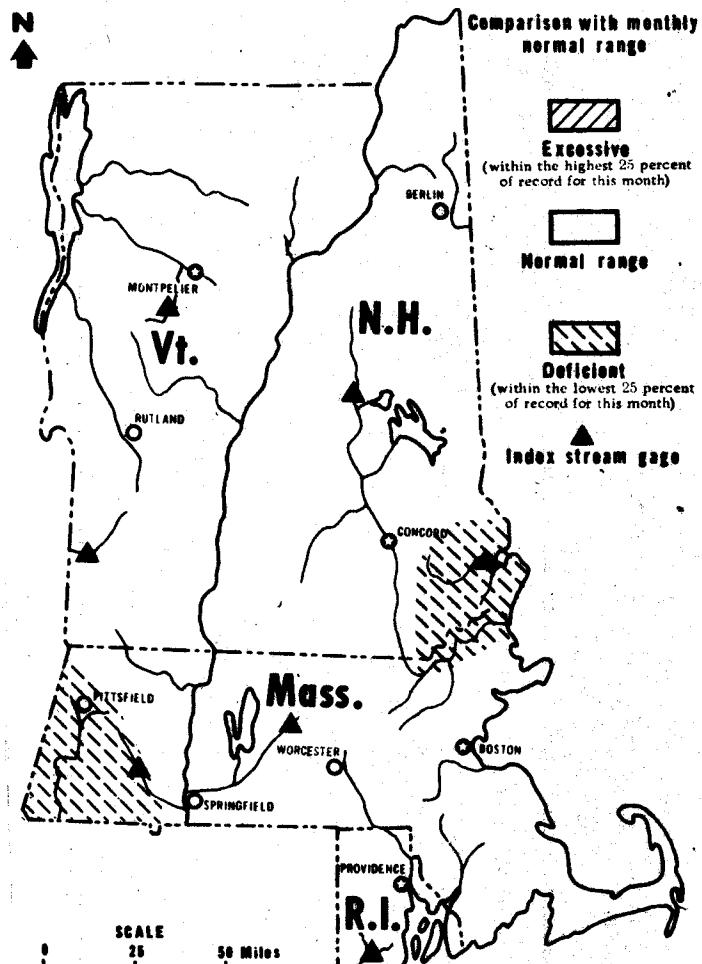
CURRENT WATER RESOURCES CONDITIONS IN CENTRAL NEW ENGLAND



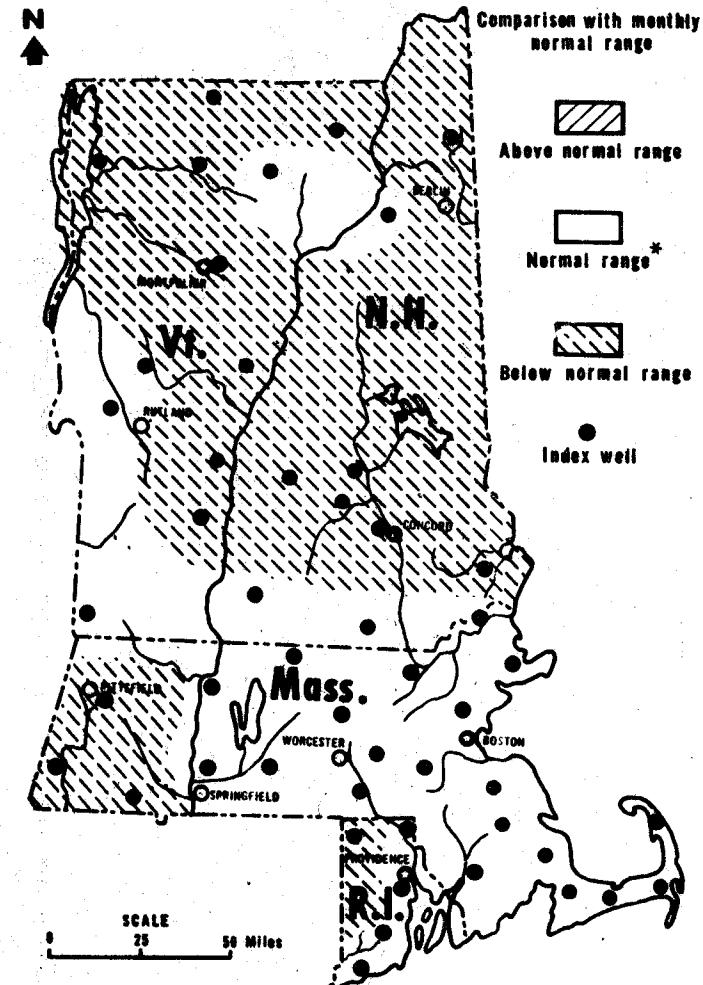
WATER RESOURCES DIVISION, U.S. GEOLOGICAL SURVEY

IN COOPERATION WITH THE STATES OF
MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT

SURFACE-WATER RUNOFF DECEMBER 1982

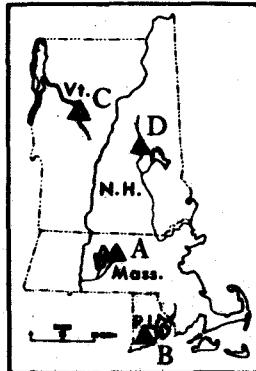


GROUND-WATER LEVELS DECEMBER 1982



Storage in major reservoirs is in the normal range for December.

MONTHLY MEAN DISCHARGE, IN CUBIC FEET PER SECOND



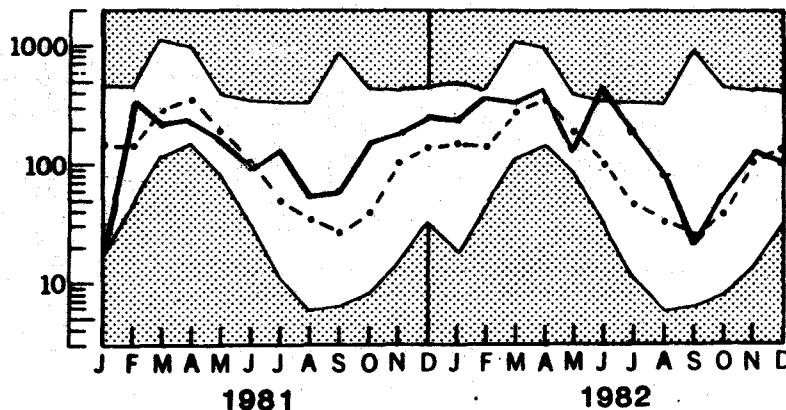
STREAMFLOW AT SELECTED INDEX GAGES

UNSHADED AREA SHOWS RANGE
BETWEEN HIGHEST AND LOWEST
MONTHLY MEAN DISCHARGES OF RECORD

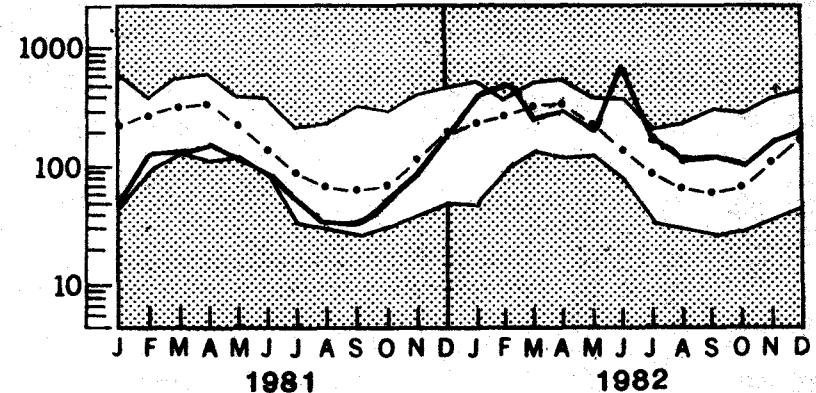
CURRENT RECORD —————

MEDIAN -----

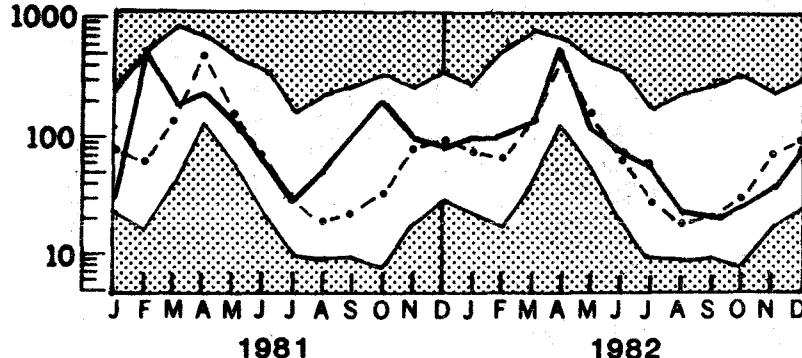
WARE RIVER AT
INTAKE WORKS NEAR BARRE, MASS. (A)



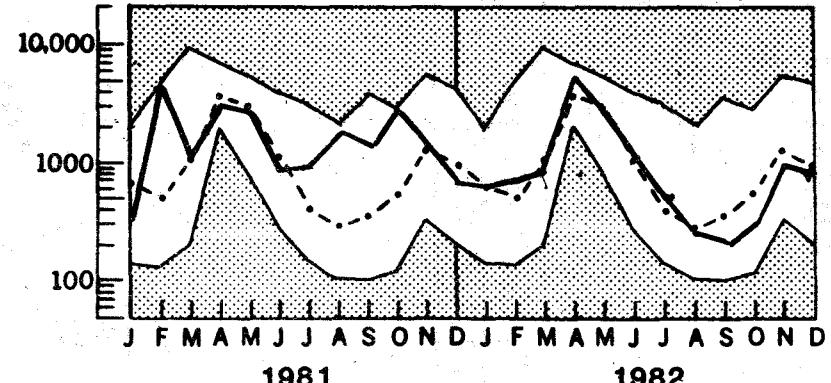
PAWCATUCK RIVER
AT WOOD RIVER JUNCTION, R.I. (B)



DOG RIVER AT NORTHFIELD FALLS, VT. (C)



PEMIGEWASSET RIVER AT PLYMOUTH, N.H. (D)

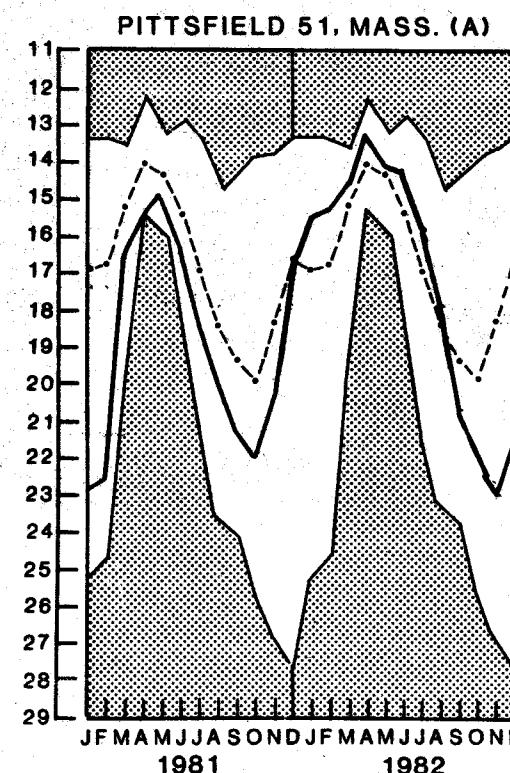
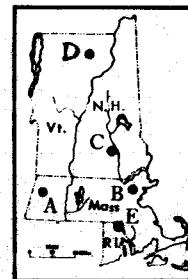


GROUND-WATER LEVELS IN SELECTED OBSERVATION WELLS

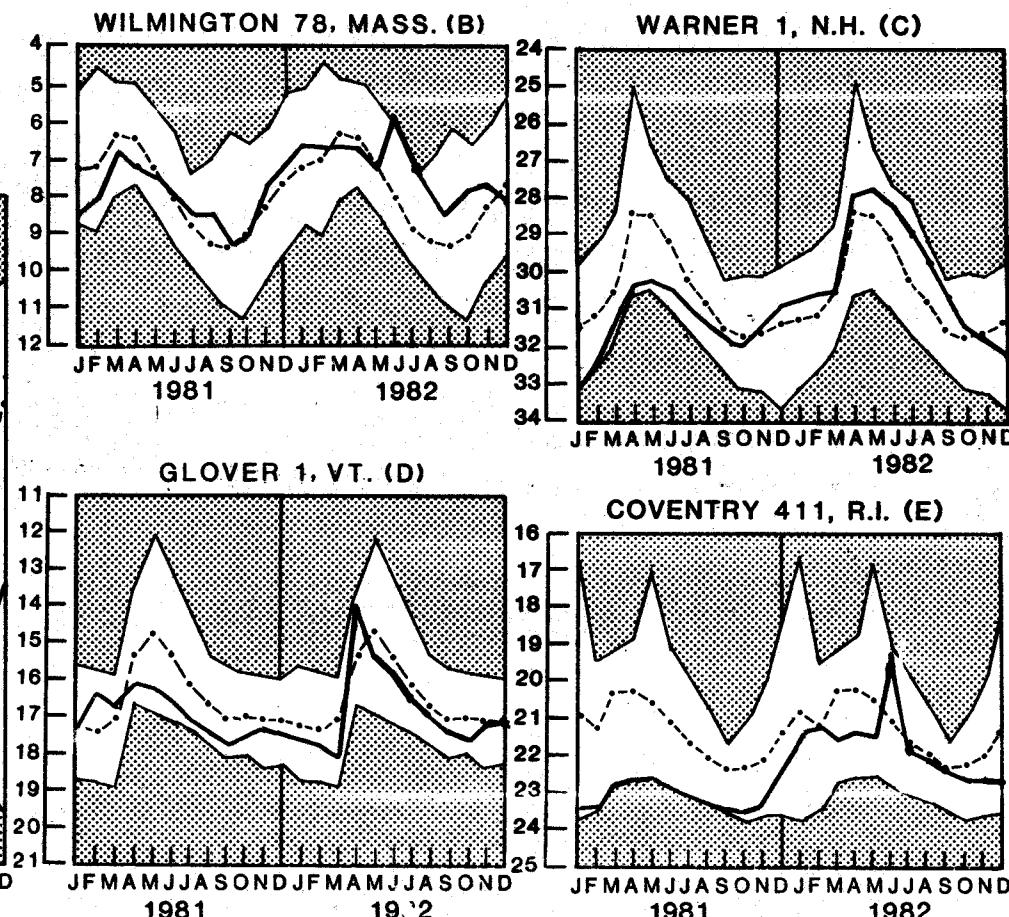
UNSHADeD AREA SHOWS RANGE BETWEEN HIGHEST AND LOWEST
MONTH-END WATER LEVEL OF RECORD

WATER LEVEL IN FEET BELOW LAND SURFACE

G —



CURRENT RECORD ————— AVERAGE -----



SUMMARY OF GROUND-WATER LEVELS, DECEMBER, 1982

PROVISIONAL

WELL	START OF RECORD	NET CHANGE		DEPARTURE FROM DECEMBER AVERAGE*	WATER LEVEL BELOW LAND- SURFACE DATUM	
		IN MONTH	IN ONE YEAR		(FEET)	(FEET)

MASSACHUSETTS

ACTION 158	1965	- 0.23	- 0.05	- 0.08	19.53	22
BARNSTABLE 230	1957	+ 0.20	- 0.04	- 0.63	24.73	22
BARNSTABLE 247	1962	- 0.03	+ 0.42	- 0.89	26.10	22
BOURNE 198	1962	+ 0.10	- 0.24	- 0.59	34.60	22
BREWSTER 21	1962	- 0.01	+ 1.52	- 0.67	10.95	22
CHATHAM 138	1962	+ 0.63	+ 0.99	+ 0.81	23.51	22
DEDHAM 231	1965	+ 0.19	- 3.83	- 1.37	7.64	22
DOVER 10	1965	- 0.27	+ 0.18	- 0.33	34.64	22
EAST BRIDGEWATER 30	1958	- 0.22	- 1.58	+ 0.34	9.03	22
FREETOWN 23	1984	- 0.13	+ 0.75	+ 0.25	13.35	23
GRANBY 68	1954	+ 0.13	- 0.72	- 0.30	8.47	21
GRANVILLE 5	1965	- 0.57	+ 1.44	- 0.04	34.05	22
GREAT BARRINGTON 2	1951	- 0.27	- 0.13	- 1.79	12.45	22
HAVERHILL 23	1960	+ 0.08	- 0.82	- 0.79	13.44	21
LOWELL 14	1939	+ 0.10	- 0.58	+ 0.30	14.04	22
MONTAGUE 5	1942	+ 0.12	- 0.28	- 1.11	4.73	22
NORTHBOROUGH 38	1962	+ 0.54	- 1.11	- 0.45	5.66	21
NORTHBIDGE 1	1965	- 0.27	- 0.39	+ 0.07	3.01	21
PITTSFIELD 51	1963	+ 1.18	- 5.01	- 4.74	21.57	22
PLYMOUTH 22	1956	- 0.52	+ 1.37	- 0.06	25.36	23
STERLING 1	1947	+ 1.91	- 1.80	- 0.46	4.85	21
TOPSFIELD 1	1936	+ 0.28	- 3.69	- 1.82	14.09	21
TRURO 89	1962	+ 0.07	- 0.31	- 0.24	12.28	22
WELLFLEET 17	1962	- 0.10	+ 0.41	+ 0.00	10.94	22
WENHAM 76	1965	- 0.24	-	- 0.08	2.58	21
WEST BROOKFIELD 2	1959	- 0.25	+ 0.97	+ 1.52	18.77	21
WEST BROOKFIELD 10	1970	+ 0.27	- 5.62	- 2.77	8.79	21
WEYMOUTH 2	1965	+ 0.88	- 5.30	- 1.93	14.19	22
WILMINGTON 78	1951	- 0.50	- 1.11	- 0.52	8.19	22
WINCHENDON 13	1939	+ 0.36	- 1.71	+ 0.49	6.02	23
WINCHESTER 14	1940	- 0.62	- 4.07	- 1.56	10.89	21

NEW HAMPSHIRE

CONCORD 2	1963	- 0.23	+ 1.41	- 0.17	40.43	21
CONCORD 3	1966	- 0.33	+ 0.67	+ 0.40	56.93	21
CONCORD 4	1966	- 0.40	- 2.35	- 1.15	18.73	21
ERROL 1	1966	- 0.4	- 0.5	- 0.4	13.1	21
FRANKLIN 1	1966	- 0.58	- 2.61	- 0.50	13.60	21
HOOKSETT 5	1965	+ 0.36	- 2.76	- 1.54	49.53	21
KEENE 2	1963	+ 0.09	- 0.08	+ 0.02	3.41	21
LANCASTER 1	1966	+ 2.58	-	+ 2.30	-1.00	21>>
LEE 1	1953	- 0.27	- 0.64	- 0.45	31.56	21
MERRIMACK 22	1958	- 0.22	- 2.18	- 1.36	8.57	21
MILFORD 36	1962	- 0.06	- 0.75	+ 0.11	8.25	22
NASHUA 143	1958	- 0.29	- 0.88	- 0.02	8.81	21
NASHUA 218	1964	+ 0.15	- 1.70	- 0.44	29.02	21
NEW LONDON 1	1947	- 0.22	- 8.29	- 5.91	15.56	21
WARNER 1	1965	- 0.27	- 1.27	- 0.70	32.22	21

WELL	START OF RECORD	NET CHANGE IN MONTH	NET CHANGE IN ONE YEAR	DEPARTURE FROM DECEMBER AVERAGE*	WATER LEVEL BELOW LAND- SURFACE DATUM (FEET)	DAY
		(FEET)	(FEET)	(FEET)	(FEET)	
RHODE ISLAND						
BURRILLVILLE 187	1968	+ 0.27	- 1.38	- 1.24	16.85	27
CHARLESTOWN 18	1946	+ 0.87	- 0.89	- 0.17	18.66	27
COVENTRY 411	1961	+ 0.03	- 0.41	- 1.06	22.58	27
EXETER 16	1946	+ 1.64	- 0.71	+ 2.49	9.48	27
PAWTUCKET 136	1962	- 0.25	- 0.23	- 0.58	5.44	27
WEST GREENWICH 181	1969	+ 0.91	- 1.09	- 0.58	15.75	27

VERMONT						
BERKSHIRE 1	1966	+ 0.42	- 0.18	- 0.44	13.89	23
BRIGHTON 1	1966	- 0.06	+ 0.05	- 0.11	3.93	22
CHESTER 1	1966	- 0.12	- 0.39	- 0.47	5.57	22<
GLOVER 1	1966	+ 0.11	+ 0.18	- 0.14	17.19	23
HARTLAND 54	1969	+ 0.36	- 0.68	- 0.64	9.52	21<
MIDDLESEX 3	1966	+ 0.69	- 0.48	- 0.89	22.22	23
MILTON 3	1956	- 0.86	- 5.84	- 0.89	34.35	23
MONTPELIER 2	1966	+ 0.32	- 0.59	- 0.93	16.18	23
MORRISTOWN 1	1966	+ 0.32	- 0.98	- 0.78	19.43	23
PITTSFORD 8	1957	- 0.07	- 1.40	+ 0.34	36.44	21
POWNAL 1	1964	+ 0.30	- 0.53	- 0.14	13.79	21
ROCHESTER 1	1966	+ 1.22	+ 0.39	+ 0.16	10.66	22
WAITSFIELD 3	1975	+ 0.50	- 0.18	- 0.25	6.73	22
WEST FAIRLEE 1	1966	+ 0.19	- 1.15	- 0.48	4.51	21

> SET NEW HIGH OR EQUALS HIGHEST RECORDED WATER LEVEL FOR END OF DECEMBER
 >> SET NEW HIGH OR EQUALS HIGHEST RECORDED WATER LEVEL FOR PERIOD OF RECORD
 < SET NEW LOW OR EQUALS LOWEST RECORDED WATER LEVEL FOR END OF DECEMBER
 << SET NEW LOW OR EQUALS LOWEST RECORDED WATER LEVEL FOR PERIOD OF RECORD
 * MONTHLY AVERAGE INCLUDES CURRENT MEASUREMENT
 — DATA NOT AVAILABLE

A MONTHLY REPORT PREPARED BY THE
 U.S. GEOLOGICAL SURVEY, WATER RESOURCES DIVISION
 SUITE 1309, 150 CAUSEWAY STREET, BOSTON, MA 02114

IN COOPERATION WITH THE STATES OF
 MASSACHUSETTS, NEW HAMPSHIRE, RHODE ISLAND, AND VERMONT